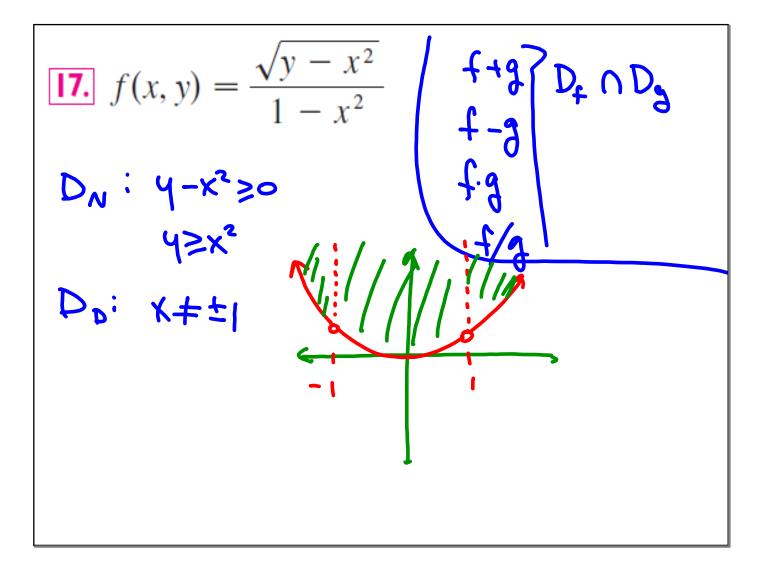
TI.

Let
$$f(x,y) = \sqrt{x-y}$$
 $x-y \ge 0$
Find Domain & Raype
 $D: f(x,y) | x-y \ge 0$
 $R: \{z \mid z \ge 0\}$

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Find Domain
13.
$$f(x, y) = \ln(9 - x^2 - 9y^2)$$

 $9 - \chi^2 - 9y^2 > 0$
 $\chi^2 + 9y^2 < 9$
 $\frac{\chi^2}{9} + y^2 < 1$
 $\frac{\chi^2}{9} + y^2 < 1$



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19.
$$f(x, y, z) = \sqrt{1 - x^2 - y^2 - z^2} \ge 0$$

D: $\{(x, y, z) \mid x^2 + y^2 + z^2 \le 1\}$

